

language translation of the originally-filed PCT application and the Substitute Specification is also enclosed.

IN THE ABSTRACT:

Please substitute the originally filed Abstract with the Abstract, which is provided on a separate sheet, as follows:

ABSTRACT OF THE DISCLOSURE

[0080] Exemplary embodiments of a press-forming device are provided. The exemplary press-forming device can include a material characteristic input configured to input the material characteristics out of sheet thickness, yield strength, 0.2% proof stress, tensile strength, elongation, n value, r value, stress-strain relation equation, hardness, temperature, surface roughness, friction coefficient and/or lubricant film thickness of the material. A state variable detector can also be provided for measuring at least one state variable out of punch reaction, metal mold temperature, metal mold distortion amount, work piece deformation amount, and work piece temperature during forming. A processing condition computing arrangement may be provided which can be programmed to determine at least one processing condition out of forming speed, blank holding force, or metal mold temperature from the material characteristic inputted by the material characteristic inputting arrangement and the state variable during the forming measured by the state variable detector. In addition, a processing condition controller may be provided which is configured to control the punch or die movement speed, temperature and/or blank holding force according to the processing condition determined by the processing condition computing arrangement. In addition, press-forming method and computer program/software arrangement may be provided which can configure the device to perform the functions described above, and storage medium may be provided which can store thereon such computer program/software arrangement.